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# Congressional

DUE: 3-24-93

PLEASE MAKE 2 EXTRA COPIES OF INCOMING, ATTACHMENTS,  
AND REPLY FOR DOCKET FILE, ROOM 222.

ROD GRAMS

6TH DISTRICT, MINNESOTA

COMMITTEE ON BANKING



PRB

1713 LONGWORTH BUILDING  
WASHINGTON, DC 20515-2306  
(202) 225-2271

FEB 09 1993

DOC #	101138	AIDE	KL
NAME	S. K. Laid		
SUBJECT			
COMMENTS			

Feb. 25, 1993

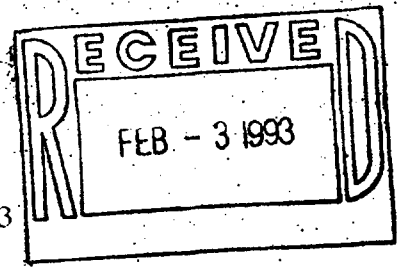
Dear Sir:

I understand the FCC is trying to push a bill through Congress to add 4 more voice pager frequencies in between our channels. This would make channels 16 thru 41 unuseable.

I am an RC airplane enthusiast. Our frequencies only go to channel 60. Therefore, this would leave us with too few frequencies for the RC enthusiasts.

Please help me continue the safe enjoyment of my pasttime by not allowing the FCC to carry out its proposals for the

Kim



The Honorable Rod Gram  
2013 2nd. ave. south # 30

February 3, 1993

888 80 834

February 3, 1993

The Honorable Rod Grams  
U.S. House of Representatives  
Washington, D.C. 20515

DOC #101136	AIDE KL
NAME Zuidera	
SUBJECT	
COMMENTS:	

Dear Congressman Grams:

I have been involved with model aviation since I was a young boy. Like many other people, ranging from astronauts to engineers, I grew up building and flying model aircraft for a relaxing and rewarding pastime. Today, I build and fly models which are controlled by radio transmitters and receiver. I have also taught this skill and its many rewards to many groups of students and Boy Scouts. The interest sparked by this hobby has

Please understand that radio controlled model airplanes are far from many people's vision as "toys". Wing spans in the range of 8' to 10' are very common with weights in the 30 to 55 lb. range. Models of this type require between 100 and 1000 hours to construct, all one at a time, all by hand.

The implementation of PR Docket 92-235 would create interference to our model's radio equipment on 62% of our current frequencies allotted by the FCC. The resulting interference would result in an uncontrolled crash and destruction of the model. Please take a moment to look at the cover of one of our hobby's publications (enclosed), published by our Academy of Model Aeronautics. I am sure you can see these are not "stick and tissue" models but expensive investments that would be jeopardized by the resulting radio interference caused by adoption of PR Docket 92-235 before the FCC.

FEB 10 1993



TECHNOLOGY  
OF FORMS

6931 GLENVIEW LANE  
LINO LAKES, MINNESOTA 55014  
(612) 784-2379 FAX (612) 784-0206

February 2, 1993

The Honorable State Representative Ron Gram  
1713 Longworth Office Building  
Washington, D.C. 20515

Dear Mr. Gram:

DOC #	101134	AIDE	KL
NAME	Molina		
SUBJECT			
COMMENTS			

I have been interested in aviation for as long as I can remember. I am very active in a local club whose members enjoy constructing and operating radio controlled model airplanes.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these new rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 or 40 pounds. The models themselves are expensive to build, but more to the point, they are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the craft. We often fly our models at organized events and contests where hundreds of operators participate. We need the use of our full complement of radio frequencies in order to assure a safe flying environment.



AMA #1405

FEB 10 1993

GRASSFIELD RC CLUB, INC.

February 3, 1993

DOC # 101/40	AIDE KL
NAME	Rechn
SUBJECT	
COMMENTS	

The Honorable Rod Grams  
United States House of Representatives  
Washington DC 20515

Dear Representative Grams:

I have been involved with model aviation since I was a young boy. Like many other people, ranging from astronauts to engineers, I grew up building and flying model aircraft for a relaxing and rewarding pastime. Today, I build and fly models which are controlled by radio transmitters and receiver. I have also taught this skill and its many rewards to many groups of students and Boy Scouts. The interest sparked by this hobby has challenged these young people's minds and imaginations when many of their peers succumbed to far less productive diversions.

Today the continuation of this educational and challenging hobby for over two million model aviation enthusiasts in this country is in serious jeopardy. Many jobs associated with the manufacture and sale of our radio equipment will cease to exist. Why?

Because adoption of a proposal, PR Docket 92-235 before the Federal Communications Commission will immediately obsolete and render unusable over \$5,000 of radio equipment which I personally own. Similarly, approximately one million other users of this equipment would be effected financially as well. Our radio control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these new rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If

the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that radio controlled model airplanes are far from many people's vision as "toys". Wing spans in the range of 8' to 10' are very common with weights in the 30 to 55 lb. range. Models of this type require between 100 and 1000 hours to construct, all one at a time, all by hand.

The implementation of PR Docket 92-235 would create interference to our model's radio equipment on 62% of our current frequencies allotted by the FCC. The resulting interference would result in an uncontrolled crash and destruction of the model. Please take a moment to look at the cover of one of our hobby's publications (enclosed), published by our Academy of Model Aeronautics. I am sure you can see these are not "stick and tissue" models but expensive investments that would be jeopardized by the resulting radio interference caused by adoption of PR Docket 92-235 before the FCC.

I do not think it is wise of the FCC to seek to improve the operation conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios but we have a considerable investment in our models and in our radio equipment. The hobby provides many hours of enjoyment to millions of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-75 MHz band.

Sincerely,

David P. Rech, President  
Grassfield R/C Club, Inc.  
6252 Edgemont Blvd.  
Brooklyn Park, MN 55428

(612) 533-1392 (days)

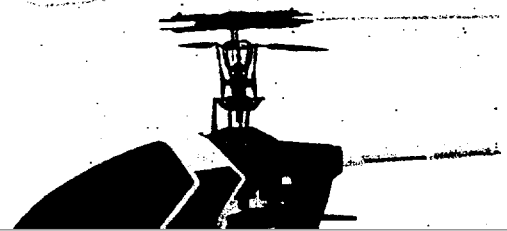
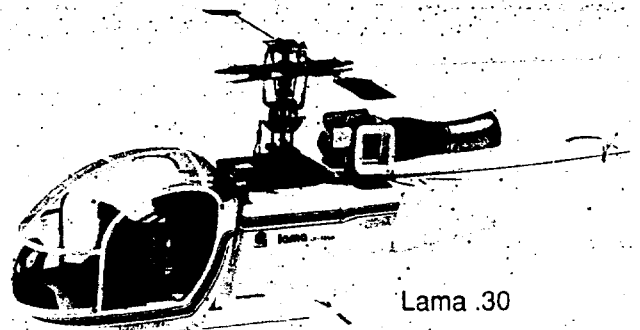
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MINNEAPOLIS MN 55428-2655

# A Who's Who Of Helicopters.

**Who** gives you a choice of more than 20 different models, in .10, .30 and .60 sizes, including a complete series of magnificent scale copters and an array of optional fiberglass bodies?

**Who** lets you select between almost-ready-to-fly, factory assembled models and precision kits that you assemble yourself?

**Who** keeps more than 15,000 parts in stock, from Special Edition Gold high-performance parts to hundreds of standard replacement parts...so you won't be grounded for lack of a part?



FEB 10 1993

1208 N. William St.

Stellwater, MN 55082

Feb 2, 1993

The Honorable Rod Grams

U.S. House of Representatives

Washington, D.C. 20515

Dear Representative Grams,

Congratulations on your win!

I need more help. I am

DOC #101141	AIDE <input checked="" type="checkbox"/>
NAME <u>Shepherdson</u>	
SUBJECT _____	
COMMENTS: _____	
_____	

proposed changes are enacted, hundreds of thousands nationwide will suffer, and an entire industry will reel under the impact.

We need your help to stave off this change. We have not come this far to be thrown back so far.

I personally spend hundreds of dollars each year and I have thousands of dollars invested in the lobby.

We believe you can make a difference!

Thank you!

Sincerely,

Gerald E. Sheperdson

Academy of Model Aeronautics

No. 206242

FEB 11 1993

JAN 28 1993

DOC #	101248	AIDE	KL
NAME	Selbtscha		
SUBJECT			
COMMENTS			

THE HONORABLE ROD GRAMS  
U.S. HOUSE OF REPRESENTATIVES  
WASHINGTON DC 20515

DEAR MR ROD GRAMS

I HAVE BEEN INTERESTED IN AVIATION FOR MOST OF MY LIFE, I AM ACTIVE IN A LOCAL CLUB WHOSE MEMBERS BUILD AND FLY MODEL AIRPLANES THAT WE FLY BY RADIO CONTROL. ALSO, MY SON HAS STARTED TO ENJOY THIS HOBBY WITH ME. IT'S SOMETHING THAT BROUGHT US CLOSER TOGETHER AND ALSO HELPED HIM IN SCHOOL.

BECAUSE OF THIS I AM VERY CONCERNED ABOUT PROPOSED RULES THAT ARE

DISPATCH OPERATIONS THE WAY IT'S SET UP  
NOW, OUR RADIO CONTROL FREQUENCIES ARE  
FAR ENOUGH APART FROM THE LAND MOBILE  
FREQUENCIES THAT WE HAVE BEEN ABLE TO  
SHARE THE BAND WITH EACH OTHER WITHOUT  
ANY INTERFERENCE.

NOW THE FCC WANTS TO CREATE MORE  
LAND MOBILE FREQUENCIES BY SPLITTING THEM  
INTO NARROWER BANDWIDTHS AND REARRANGING  
THE BAND PLAN. AS A RESULT, MANY LAND  
MOBILE FREQUENCIES WILL MOVE CLOSER TO THE  
RADIO CONTROL FREQUENCIES AND CAUSE INTERFERENCE  
TO RADIO CONTROL OPERATIONS. I HAVE BEEN TOLD  
THAT OF THE 50 FREQUENCIES NOW AVAILABLE  
TO US ONLY 19 WILL BE LEFT IF THE RULE IS  
PUT INTO EFFECT.

WHEN WE FLY OUR RADIO CONTROLLED MODEL  
AIRPLANE, WE DO OUR UTMOST TO ASSURE  
THE SAFETY OF THE OPERATORS AND BYSTANDERS.  
MANY OF OUR SAFETY PRECAUTIONS INVOLVE THE  
(SAFE) COORDINATION AND USE OF THE RADIO  
CONTROL FREQUENCIES. IF THE FCC RULE GO  
INTO EFFECT THE REMAINING BANDS ARE  
GOING TO BECOME CONGESTED AND OUR MARGIN  
OF SAFETY WILL BE DRASTICALLY REDUCED.  
BECAUSE OUR MODEL CAN WEIGH UP TO  
40 LBS, HAVE WING SPANS UP TO 10' AND

FLYING ENVIRONMENT THAT WE NOW ENJOY.  
THE FLYING FIELD WHERE I FLY IS WITHIN  
500' OF A INTERSTATE AND 1/2 MILE FROM A  
VE HIGH. WE INTENTIONALLY CRASH OUR PLANES  
BEFORE WE GET CLOSE ENOUGH TO HURT ANYONE.  
IF THESE HIGH POWER LAND MOBILE UNITS ARE  
INSTALLED NEXT TO OUR FREQUENCIES, I'M AFRAID  
OF THE RESULT.  
I REALLY DON'T THINK IT'S WISE OF THE  
FCC TO SPEC TO IMPROVE THE OPERATING  
CONDITIONS OF LAND MOBILE RADIO USER AT  
THE EXPENSE OF THE RADIO CONTROL MODELS  
THE FCC MAY NOT THINK THAT WE ARE AS  
IMPORTANT AS THE LAND MOBILE RADIO USER,  
BUT WE ALL HAVE A SIZEABLE INVESTMENT  
IN OUR MODELS AND IN OUR RADIO EQUIPMENT.  
MUCH OF WHICH WAS BOUGHT IN THE AFFECTED

US BY LIMITING THE NUMBER OF SHIP REQUESTS  
GIVES FOR US TO USE, OUR INVESTMENTS ARE USELESS,  
AND OUR SAFETY RECORD COULD BE IN PERIL.

THE HOBBY PROVIDES MANY HOURS OF ENJOYMENT

TO THOUSANDS OF PEOPLE LIKE ME, GIVES MY

SON AND I AN ACTIVITY THAT WE CAN SHARE, AND

CONTRIBUTES TO THE ADVANCEMENT AND DEVELOP-

MENT OF THE COMMERCIAL AVIATION INDUSTRY.

PLEASE HELP ME TO CONTINUE TO ENJOY

THE SAME ENJOYMENT OF MY PASTIME BY NOT

ALLOWING THE FCC TO CARRY OUT ITS PROPOSALS

FOR MODIFICATIONS OF THE 73-76142 BAND

Sincerely

Bernard J. Altschuler

FEB 12 1993

The Honorable Rod Grams  
U.S. House of Reps.  
Washington, D.C. 20515

Feb 5 1993	
DOC #	101346 AIDE KL
NAME	Schweitzer
SUBJECT	
COMMENTS:	

This is a plea to stop the passage of the FCC proposal PR Docket 92-235.

Dear Sir:

I am a software engineer who has for many years built and operated radio controlled model cars, boats, planes and more recently, helicopters. I consider this a valid and rewarding pastime that I hope to pursue for many, many years to come. I currently log about 10 hours a week to this hobby, which is around 500 hours a year. I consider these hours among my "quality" time. Each model can take up to six months and several hundred dollars to complete. They can weigh up to 30 pounds, and are capable of going 50 mph. I consider myself a typical R/C modeler.

I have rejoiced as the R/C industry has gained momentum and grown considerably over the last 10 years. However, this growth has caused typical problems that are difficult to solve. Some of these problems include increased waste from our fuel, increased difficulty in finding usable flying sites, and abusers of the hobby. (Please realize most of these problems are shared with many other pastimes.) However, these problems don't compare to the most dangerous of our hobby: contention over the 50 frequencies in the 72 - 76 MHz range being used by the majority of R/C modelers. Each model has a radio system that uses one of these 50 frequencies. Using this frequency we tell our model what to do, at distances of up to 3,000 feet. I own three such radio systems with a combined value of over a thousand dollars.

In a way, the FCC has an impossible task. The number of people and devices that can use airspace as a communication medium will, as always, continue to grow. However, there is

interfered with or went dead for even a second during some of these maneuvers, I quite possibly would not be able to type this letter to you. I am very grateful that only once has any of my R/C models ever had an interference-related problem. It cost me my airplane and some rattled nerves. Because of this experience, I now go to great lengths to avoid interference problems. This is not an easy task, and I can only see it getting harder.

Suffice it to say this out-of-control experience is similar to driving your new car down the interstate and then lose control of the brakes and steering wheel; when you let off the gas the car keeps going and when you go for the key, it breaks off in the ignition. This may seem like an extreme example, but worse things can happen with R/C models.

Going back to our car example:

You have a seatbelt to cushion the impending impact. If you hit another vehicle, chances are that they, too, are using a seatbelt. R/C models have no seatbelts; neither do the people and objects that they can hit. Chances for serious injury are very real, and this risk keeps us modelers on our toes. Under control, our models are quite safe and pleasant to watch as they float across the sky. Out of control, they are nothing short of incoming missiles. To most modelers, safety is of utmost importance, and we go to great lengths to operate our models as safely as is reasonably possible.

During the last few years new safety precautions have come to R/C radio systems in the form of built-in Fail Safe operation. The radio receivers are designed to respond in a pre-programmed way when there is any frequency interference. This sounds like a perfect solution, but it is more of a gimmick than a safety device. Even though I used it properly, it didn't save my airplane when it crashed. In practice, these systems only

I feel the entire rapidly growing radio control model industry is united in the opinions stated.

FEB 18 1993

The Honorable Rod Grams  
House of Representatives

DOC #102281	AIDE KL
NAME Ulrich	
SUBJECT	

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely,

*Brian Ulrich*

Brian Ulrich  
517 S. West Street  
Stillwater, MN 55082

FEB 18 1990

The Honorable Rod Grams  
House of Representatives  
Washington, D.C. 20515

Dear Mr. Grams:

I enjoy building and flying radio controlled model airplanes. I am in a local club whose members are very active in the hobby as well. I've worked hard to pay for the equipment and dues for the club. Between my son and I we have several hundred dollars invested in planes and equipment.

I am very concerned about the new rules proposed by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the useability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model

DOC #	102282	AIDE	X2
NAME	Ulrich		
SUBJECT			
COMMENTS			

I do not think it is wise of the FCC to seek to improve the land mobile users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and in our radio equipment. The hobby provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Andrew Ulrich', with a long, sweeping horizontal line extending to the right.

Andrew Ulrich  
517 S. West Street  
Stillwater, MN 55082